## **LOCATION - COI, CALIFORNIA**

**DESCRIPTION OF OPERATIONS** - Activities at the Yard include; receiving inbound trains, switching cars, loading and unloading intermodal trains, storage of intermodal containers and chassis, building and departing outbound trains, repairing freight cars and intermodal containers/chassis, and servicing locomotives. Facilities within the Yard include; classification tracks, a gate complex for inbound and outbound intermodal truck traffic, intermodal loading and unloading tracks, and various buildings and facilities supporting railroad and contractor operations.

Source	Activity	Typical	Option			Is the C	Option Feasib						
Area	Description	Loco. Model*	Number	Description of Option	Technically	Legally	Operationally	Economically	Safety	Other	Go?	Notes	
1	1 Movement into & out of the Yard												
1a	Movement	Road fleet											
			1	Discontinue use of area	-	-	No	No	-	-	NO	must move into & out of yards	
			2	Relocate Operation	-	-	?	?	-	-	?	will need to re-evaluate	
			3	Dedicate Tier 2 units	Yes	Yes	LT	LT	Yes	-	NO	fleet will naturally turn over in time	
			4	Retrofit w/ ICD's	Yes	Yes	Yes	LT	Yes	Yes	LT	will likely occur after LHP units	
			5	Manual Shutdown	Yes	Yes	Yes	Yes	Yes	Yes	YES	udpated training program is under way	
			6	Use LNG units	No	Yes	No	No	No	No	NO	significant serious issues	
			7	Use CARB diesel	Yes	Yes	No	=	-	-	NO	CARB fuel not available outside Ca	
			8	Use specialty fuels	No	Yes	No	No	-	-	NO	I.ebiodiesel/lubrizol; quality/supply issues	
			9										
			10										
	1	•	11										
1b	Movement	Local fleet		-	T	1			1	1			
			1	Discontinue use of area	-	-	No	No	-	-	NO	must move into & out of yards	
			2	Relocate Operation	-	-	?	?	-	-	?	will need to re-evaluate	
			3	Dedicate ULEL switchers	Yes	Yes	LT	LT	Yes	-	LT	fleet will naturally turn over in time	
			4	Retrofit w/ ICD's	Yes	Yes	Yes	Yes	Yes	Yes	YES	currently in process	
			5	Manual Shutdown	Yes	Yes	Yes	Yes	Yes	Yes	YES	udpated training program is under way	
			6	Use LNG units	No	Yes	No	No	No	No	NO	significant & serious issues	
			7	Use CARB diesel	Yes	Yes	No	-	-	-	NO	CARB fuel to be used in Ca	
			8	Use specialty fuels	No	Yes	No	No	-	-	NO	I.ebiodiesel/lubrizol; quality/supply issues	
			9										
			10										
	1		11										
2	Idling & move	ment w/in	location										
2a	Idling	Road fleet											
	See Source Area 1a for options associated with movement ofRoad fleet locomotives.												
2b	Idling	Local fleet											
	See Source Area 1b for options associated with movement of Local fleet locomotives.												
3													
3a	Idling	Mixed fleet											
- Ju	idinig	I IIACU IICCE		See Source Area 1a for options associated with movement of Mixed fleet 1 locomotives.									
3b	Idling	Shop fleet		Dec double rived 2d for options dissociated that more ment of rinced need 2 locomoures.									

Source	Activity	Typical	Option		Is the Option Feasible for UPRR? **							
Area	Description	Loco. Model*	Number	Description of Option	Technically	Legally	Operationally	Economically	Safety	Other	Go?	Notes
				See Source Area 1a for option	ns associated v	vith move	ment of Shop fle	et locomotives.				
	Movement between Svc Trk, Load Test, & Locomotive Shop											
3e	Movement	Shop fleet										
	1			See Source Area 1a for option	ns associated v	vith move	ment of Shop fle	et locomotives.				
3f	3f Movement Shop fleet See Source Area 1a for options associated with movement of Shop fleet locomotives.											
	Testing at Svc Trk, Load Test, & Locomotive Shop											
3g	Testing	Test fleet			T	ı		•		1		
			1	Discontinue use of area	-	-	No	No	-	-	NO	must move into & out of yards
			2	Relocate Operation	Yes	Yes	?	?	?	-	?	will need to re-evaluate
			3	Dedicate Tier 2 units	Yes	Yes	No	No	Yes	-	NO	tested fleet varies day to day
			<u>4</u> 5	Retrofit w/ ICD's Manual Shutdown	Yes Yes	Yes Yes	Yes Yes	LT Yes	Yes Yes	Yes Yes	LT YES	will likely occur after LHP units udpated training program is under way
			6	Use LNG units	No	Yes	No	No	No	No	NO	significant serious issues
			7	Use CARB diesel	Yes	Yes	No	- INO	- INO	-	NO	CARB fuel not available outside Ca
			8	Use specialty fuels	No	Yes	No	No	_	_	NO	I.ebiodiesel/lubrizol; quality/supply issues
			7	Ins exhaust hood/scrub	No	Yes	Yes	No	?	_	NO	proof of concept under way
			9	Modify test proceedure	Yes	No	?	?	-	-	NO	previously completed
			10				-	-				,,,,,,
			11									
4	Flat Switching	of cars									_	
4a	Train Building	Local fleet				I		1	_	ı		
			1	Discontinue use of area	-	-	No	No	-	-	NO	
			2	Dedicate Tier 2 units	Yes	Yes	No	No	-	-	NO	0570 (/)
			3	Dedicate Tier 2 Retrofit	No	Yes	Yes	No	- V	-	No	GETS Kits
			<u>4</u> 5	Dedicate Green Goats Dedicate GSS's	Yes Yes	Yes Yes	No Yes	Yes Yes	Yes Yes	-	YES YES	assumes Goats will work
			6	Dedicate GSS'S  Dedicate CAT Switcher	Yes	Yes	Yes	Yes	Yes		YES	
			7	Retrofit w/ ICD's	Yes	Yes	Yes	Yes	-	_	YES	All are/will be retrofitted
			8	Manual Shutdown	Yes	Yes	Yes	Yes	_		YES	Extremely critical operation - monitor closely
			9	Use LNG units	No	Yes	No	No	?	No	NO	technical/safety/logistics issues
			10	Use CARB diesel	Yes	Yes	No	-	-	-	NO	CARB fuel to be used in Ca
			11	Use specialty fuels	Yes	Yes	No	-		-	NO	I.ebiodiesel/lubrizol; quality/supply issues
			12									, , , , , , , , , , , , , , , , , , , ,
			13					_				
5	Movement bet	ween Areas	s of the Ya	ard								
5a	Movement Road fleet											
				See Source Area 1a for option	ns associated v	vith move	ment of Road fle	et locomotives.				
5b	Movement	Local fleet										
			See Source Area 1b for options associated with movement of Local fleet locomotives.									

Source Activity Description Property Control Number	Description of Option	Technically	Legally	Operationally	Economically	Safety	Other	Go?	Notes		
6a Idling Hostlers 1		uto transpo			Leonomicany	Suicty	Other	Go?			
	Discontinue use of area										
		-	-	No	No	-	-	NO	must move boxes in & around yards		
<u> </u>	Relocate Operation	-	-	?	?	-	-	?	will need to re-evaluate		
3	Replace Exist Equipment	Yes	Yes	LT	LT	Yes	-	LT	fleet will naturally turn over in time		
4	Retrofit w/ ICD's	Yes	Yes	Yes	Yes	Yes	Yes	YES	currently in process		
5	Manual Shutdown	Yes	Yes	Yes	Yes	Yes	Yes	YES	udpated training program is under way		
6	Use LNG units	Yes	Yes	LT	LT	-	-	LT	will need to re-evaluate		
7	Use CARB diesel	Yes	Yes	Yes	?	-	-	?	will need to re-evaluate		
8	Use specialty fuels	Yes	Yes	Yes	?	-	-	NO	will need to evaluate		
9	Retrofit with DPF's	Yes	Yes	Yes	LT	Yes	-	LT	will need to evaluate		
10											
11											
12											
6b Idling Cranes											
	See Source Area 6a for option	ns associated v	vith mover	ment of cranes a	ind packers.						
6c Idling Transports			,				•				
1	Discontinue use of area	-	-	No	No	-	-	NO	must move boxes in & around yards		
2	Relocate Operation	-	-	?	?	-	-	?	will need to evaluate		
3	Replace Exist Equipment	Yes	Yes	No	No	Yes	-	NO	fleet is owned by haulaway carriers		
4	Retrofit w/ ICD's	Yes	Yes	No	No	Yes	-	NO	fleet is owned by haulaway carriers		
5	Manual Shutdown	Yes	Yes	?	Yes	Yes	Yes	?	fleet is owned by haulaway carriers		
6	Use LNG units	Yes	Yes	No	No	-	-	No	fleet is owned by haulaway carriers		
7	Use CARB diesel	Yes	Yes	No	No	-	-	No	fleet is owned by haulaway carriers		
8	Use specialty fuels	Yes	Yes	No	No	-	-	No	fleet is owned by haulaway carriers		
9	Retrofit with DPF's	Yes	Yes	No	No	-	-	No	fleet is owned by haulaway carriers		
10											
11											
7 Movement of Yard Equipment (sha	g tractors/hostlers, cran	es, auto tra	nsports,	etc.)							
7a Movement Hostlers 1	Discontinue use of area	-	-	No	No	-	-	NO	must move boxes in & around yards		
2	Relocate Operation	-	-	?	?	-	-	?	will need to re-evaluate		
3	Replace Exist Equipment	Yes	Yes	LT	LT	Yes	-	LT	fleet will naturally turn over in time		
4	Retrofit w/ ICD's	Yes	Yes	Yes	Yes	Yes	Yes	YES	currently in process		
5	Manual Shutdown	Yes	Yes	Yes	Yes	Yes	Yes	YES	udpated training program is under way		
6	Use LNG units	Yes	Yes	LT	LT	-	-	LT	will need to re-evaluate		
7	Use CARB diesel	Yes	Yes	Yes	?	-	-	?	will need to re-evaluate		
8	Use specialty fuels	Yes	Yes	Yes	?	-	-	NO	will need to evaluate		
9	Retrofit with DPF's	Yes	Yes	Yes	LT	Yes	-	LT	will need to evaluate		
10											
11											
12											
7b Movement Cranes											
	See Source Area 7a for option	ns associated v	vith mover	ment of cranes a	nd packers.						

Source	Activity	Typical	Option			Is the (	Option Feasib	le for UPRR?	<b>*</b> *			
Area	Description	Loco. Model*	Number	Description of Option	Technically	Legally	Operationally	Economically	Safety	Other	Go?	Notes
7c	Movement	Transports										
			1	Discontinue use of area	-	-	No	No	-	-	NO	must move boxes in & around yards
			2	Relocate Operation	-	-	?	?	-	-	?	will need to evaluate
			3	Replace Exist Equipment	Yes	Yes	No	No	Yes	-	NO	fleet is owned by haulaway carriers
			4	Retrofit w/ ICD's	Yes	Yes	No	No	Yes	-	NO	fleet is owned by haulaway carriers
			5	Manual Shutdown	Yes	Yes	?	Yes	Yes	Yes	?	fleet is owned by haulaway carriers
			6	Use LNG units	Yes	Yes	No	No	-	-	No	fleet is owned by haulaway carriers
			7	Use CARB diesel	Yes	Yes	No	No	-	-	No	fleet is owned by haulaway carriers
			8	Use specialty fuels	Yes	Yes	No	No	-	-	No	fleet is owned by haulaway carriers
			9	Retrofit with DPF's	Yes	Yes	No	No	-	-	No	fleet is owned by haulaway carriers
			10									
			11									
8	Other											
8a												
8b												
8c												
	· · · · · · · · · · · · · · · · · · ·	-					·	· · · · · · · · · · · · · · · · · · ·				
8d										•		
	•											

#### \* Typical Locomotive Models (fleet descriptions)

The **Road** fleet is comprised of high horsepower locomotives that pull large numbers of cars long distances between terminals/major yards.

The **Local** fleet is comprised of lower horsepower locomotives that deliver fewer cars (possilby up to 40) shorter distances between industry and terminals/major yards, The **Mixed fleet** is comprised of both Road and Local fleets.

**Tested fleet** is comprised of both Road and Local fleets.

\*\* When evaluating the feasibility of an option, answers entered above indicate the following;

Yes, it appears to be feasible given current technology

No, it does not appear to be feasible at this time

 $oldsymbol{?}\ldots$  means that thte option may be possible, yet needs more thorough evaluation

LT ..... Long Term option that may be feasible in the future, yet is not part of this 'Early Impacts' analysis.

All feasibility crteria muxt be answered 'Yes' for the option to be labeled "Yes' in the 'Go?' Column.